Page 1 of 5

Approval Expires: 01/01/2001

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FORM R

TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

	ted States ironmental Pro ency	tection	Section l	on 31: known	3 of the E n as Title	me III c	ergency F of the Sup	Plannin perfund	ig and	d Commun endments	ity Rig and Re	ht-to-K eautho	(nov riza	v Act of 198 tion Act	36,		
WHE	WHERE TO SEND COMPLETED FORMS: 1. EPCRA Reporting Center P.O Box 3348									APPROPRIATE STATE OFFICE (See instructions in Appendix F)					ere if th	nis	
Merrifield, VA 22116-334 ATTN: TOXIC CHEMICA									SE IN	VENTORY			F	or EPA use o	nly		
Imp	mportant: See instructions to determine when "Not Applicable (NA)" boxes should be checked.																
			PA	ART	I. FACI	Lľ	TY IDEI	VTIFI	CAT	ION INF	ORM	ATIO	N				
SEC	TION 1. REPO	PRTING	YEAR	र 199	9												
SEC	TION 2. TRAD	E SECI	RET IN	NFOR	MATION												
2.1	Are you claiming the toxic chemical identified on page 2 trade secret? Yes (Answer question 2.2; Attach substantiation forms) X No (Do not answer 2.2; Go to Section 3) Is this copy (Answer only if "YES" in 2.1)										d						
SEC	TION 3. CERT	IFICAT	ION ((lmpo	rtant: R	eac	and sig	n afte	r cor	npleting a	ll form	ı secti	ons	5.)			
inform	by certify that I have nation is true and co data available to the	omplete a	ind that	the am	ounts and v		-		•	_							
Name	and official title of	owner/op	erator o	or senio	r managem	ent	official:				Signatur	re: Date					Signed:
	WILLIAM H. ROSEN MANAGER 06/30/2000										000						
SEC	SECTION 4. FACILITY IDENTIFICATION																
4.1								TRI Fa	cility I	D Number 9	8134-LSI	KNC-320	06				
Facility	or Establishment Na	me						Facility	or Esta	blishment Nam	e or Maili	ing Addre	ess(if	different from st	reet add	dress)	
ALASK	AN COPPER WORKS							ALASKA	N COPP	ER WORKS							
Street								Mailing	Addres	s							
3200 61	H AVE. S.							P.O. BO	X 3546								
City/Co	ounty/State/Zip Code	_						City/Co	unty/St	ate/Zip Code							
SEATTI	E	KING				WA	98134-	SEATTL	E					WA S	98124-		
4.2	This report conta (Important : chec				cable)	á	a. X	An ent facility		b. [Part of a acility		c	A Fe		
4.3	Technical Contac	t Name		SHAW	N RAJABI			Telephone Number (include area code)							e)		
													(/	944 - 9000	inglists	2002.00	0)
4.4	Public Contact N	ame		JAMES	C. BROWN							- F		hone Number (623 - 5800	include	area cou	<u>e)]</u>
4.5	SIC Code (s) (4 c	digits)		a.	rimary 3498	\exists	b. 344	3	c.	3471	d.			e.		f.	
4.6	Latitude	Deg	grees		Minutes		Secon	ds				egrees		Minutes		Sec	onds
7.0	Lantode	047			34 23				<u> </u>	ongitude	122			19		-	29
4.7	Dun & Bradstreet Number(s) (9 dig				entification I.D. No.) (1			4.9 Facility NPDES Permit Number(s) (9 characters) 4.10					Underground Injection Well Code (UIC) I.D. Number(s) (12 digits)				
	09255571		a. W	VAD980	738546			a. N				a. N	IA				
b. N			b. N					b.				b.					
	TION 5. PARE			IY INF	ORMAT		4										
5.1	Name of Parent (Company	1	NΔ		1	ALASKAN	COPPE	R CO	MPANIES IN	AC:						

009255571

NA

Parent Company's Dun & Bradstreet Number

EPA FORM R PART II. CHEMICAL-SPECIFIC INFORMATION

TRI Facility	ID Number
98134-LSKI	NC-32006
Toxic Chem	nical, Category or Generic Name
MANGANESE (COMPOUNDS

			Toxic Chemical, Category or Generic Name								
					MANGANESE COMPOUNDS						
SECTION 1. TOXIC CHEMICAL IDENTITY (Important: DO NOT complete this section if you completed Section 2 below.)											
1.1		nber exactly as it appe	ars on the Section 313 list. Enter category code	if reporting a che	mical category.)						
	N450 Toxic Chemical or Chemical Category Name	(Important: Enter only	one name exactly as it appears on the Section 3	212 5-4 1							
1.2	MANGANESE COMPOUNDS	(important, Linter Only	one name exactly as it appears on the Section a	313 list.)							
1.3	Generic Chemical Name (Important: Comple	te only	if Part 1, Section 2.1 is checked "yes". Gen	neric Name must b	e structurally desc	riptive.)					
	NA NA										
SEC	SECTION 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you completed Section 1 above.)										
2.1	Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, letters, spaces, and punctuation.)										
_,,	NA										
SEC	TION 3. ACTIVITIES AND	USES OF TH	E TOXIC CHEMICAL AT THE	FACILITY	7						
	(Important: Check all	that apply.)									
3.1	Manufacture the toxic che	emical: 3.2	Process the toxic chemical	3.3	Otherwise	use the toxic chemical:					
a.	Produce b. X Im	port									
	If produce or import:										
C.		g a.	As a reactant	а.	As a chemical processing aid						
d.	For sale/distribution	b.	As a formulation component	b.	As a man	ufacturing aid					
e.		c.	X As an article component	c	Ancillary or other use						
f.	As an impurity	d.									
	TION 4. MAXIMUM AMOU	NT OF THE T	OXIC CHEMICAL ONSITE A	T ANY TIM	E DURING	THE CALENDAR YEAR					
4.1	05 (Enter two-c	ligit code from	instruction package.)		e #47 cale in []	The second of th					
SECT	TION 5. QUANTITY OF TH	E TOXIC CHE	MICAL ENTERING EACH E	NVIRONMI	ENTAL ME	DIUM ONSITE					
			A. Total Release (pounds/year) (Enter range code or estimate*)	B. Basis of		C. % From Stormwater					
5.1	Fugitive or non-point air emissions	NA	5	(D						
5.2	Stack or point air emissions	NA x	NA								
5.3	Discharges to receiving streams water bodies (enter one name pe	or er box)		2000 (1) (2000 (2) (2) (3) (4)							
	Stream or Water Body Nar	ne	•								
5.3.1	NA					•					
5.3.2											
5.3.3											
5.4.1		NA X	NA			1					
5.4.2		NA x	NA								
If addit	ional pages of Part II, Section 5. licate the Part II, Section 5.3 pag	3 are attached, i	ndicate the total number of pages s box. 1 (example: 1,2,3, et		1						

EPA form 9350-1(Rev. 04/97) - Previous editions are obsolete.

^{*} Range Codes: A= 1 - 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds.

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

Т	RI Facility ID Number
98	8134-LSKNC-32006
T	oxic Chemical, Category or Generic Name
M	ANGANESE COMPOUNDS

										M	ANGAN	ESE COM	POUNDS		
SECTIO)N 5. QU	ANTITY OI	THE TO	XIC	CHEMIC	AL EN	TERING	G EACH	ENVIRO	ONME	NTA	L MED	O MUIC	ISITE	(Continued)
				NA	A. Total F			/year) (ente estimate)	er range		sis of	Estima de)	te		
5.5	Disposal	to land onsite						second care				di mana	7 (25)		
5.5.1A	RCRA Su	btitle C landfil	ls	X	NA										
5.5.1B	.1B Other landfills				NA					,	***************************************				
5.5.2	Land treatment/application farming				NA										
5.5.3	Surface In	mpoundment		×	NA										
5.5.4	Other disp	oosal		X	NA										
SECTION 6. TRANSFERS OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS															
6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTWs)															
6.1.A Total Quantity Transferred to POTWs and Basis of Estimate															
6.1.A.1. Total Transfers (pounds/year) (enter range code* or estimate)					6.1.A.2 Basis of Estimat (enter code)					nate					
A						······································		0				······································		***	
6.1.B.1		POTW Name	METRO	***************************************											
POTW A	ddress		821 SECC	ND A	VENUE							-			
City SI	EATTLE					State	WA	County	KING	Zip 981					98104-
6.1.B.2		POTW Name	NA				•		***************************************		•••				
POTW A	ddress														
City						State		County						Zip	-
If additional pages of Part II, Section 6.1 are attached, indicate the total number of pages in this box 1 and indicate the Part II, Section 6.1 page number in this box 1 (example: 1,2,3, etc.)															
SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS															
6.2. <u>1</u>	Off-Site	EPA Identific	cation Nun	nber (RCRA ID	No.)		AZDS	80735500)					
Off-Site L	ocation Na	ime WO	ORLD RESC	OURC	ES COMPA	NY							7,7,7,10		
Off-Site A	Address	8113 WES	T SHERMA	N		•									
City	PHOENIX				State A	z c	ounty	MARICOF	PA				• • • • • • • • • • • • • • • • • • • •	Zip	85043-
Is locatio	Is location under control of reporting facility or parent company?														

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qi-	. EDA I	ORM R		TRI Facility ID Number								
		98134-LSKNC-32006										
PART II. C	PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED) Toxic Chemical, Category or Generic Name MANGANESE COMPOUNDS SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS (Continued)											
SECTION 6.2	TRANSFERS TO OTHE	R OFF-SITE LOCATION	NS (Continued)									
	A. Total Transfers (pounds/year) B. Basis of Estimate C. Type of Waste Treatment/Disposal/											
	code* or estimate)	(enter code)		Recycling/Energy Re	ecovery (enter code)							
1. 500		1. M		1. M24								
2.		2.		2.								
3.		3.		3.								
4.		4.		4.								
6.2. <u>2</u> Off-S	ite EPA Identification Numb	er (RCRA ID No.)										
Off-Site location	Name											
Off-Site Address		_										
City		State	County		Zip -							
Is location un	der control of reporting fa	cility or parent company	?	Yes	No							
	nsfers (pounds/year) nge code* or estimate)	B. Basis of Est (enter code)	imate	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)								
1.		1.		1.								
2.		2.		2.								
3.		3.		3.								
4.		4.		4.								
SECTION 7A	. ON-SITE WASTE TRE	ATMENT METHODS A	ND EFFICIENCY									
X Not A		no on-site waste treatment is containing the toxic chemical										
a. General Waste Stream (enter code)	b. Waste Treatment M [enter 3-character o	flethod(s) Sequence	c. Range of Influer Concentration	ent d. Waste Treatment e. Based on Operating Data?								
7A.1a	7A.1b 1	2	7A.1c	7A.1d	7A.1e							
NA	3 4	5		%	Yes No							
	6 7	8	74.2	74.24	7A.2e							
7A.2a	7A.2b 1	2	7A.2c	7A. 2d	Yes No							
	3 4 7	5 8		%								
7A.3a	7A.3b 1	2	7A.3c	7A.3d	7A.3e							
3 4		5 8		%	Yes No							
7A.4a	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2	7A.4c	7A.4d	7A.4e							
	3 4	5		21	Yes No							
	6 7	8		%								
7A.5a	7A.5b 1	2	7A.5c	7A.5d	7A.5e							
	3 4	5		%	Yes No							
	6 7	8	-1									
	es of Part II, Section 6.2/7A a		···-									

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		EPA FOR	TRI Facility ID Number										
DΛ	RT II. CHEMICAL-S	98134-LSKNC-3	134-LSKNC-32006										
r M	KI II. CIILIMICAL-C	Toxic Chemical,	Category or Generic Name										
		DUNDS											
SECTI	SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES												
X Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.													
	erav Recovery Methods (enter			. or onomiou	, oatogo.,								
1 NA	NA L												
SECTION 7C. ON-SITE RECYCLING PROCESSES													
x	Not Applicable (NA) - Che stre		n-site recycling is ap the toxic chemical o										
Re	cycling Methods [enter 3-char	racter code(s)]											
1. N	2.		3.		4.			5.					
6.	7.		8.		9. [10.					
SECTION 8. SOURCE REDUCTION AND RECYCLING ACTIVITIES													
			Column A	Co	lumn B	Column C		Column D					
		Following Yea		Second Following Year									
			(pounds/year)	(pou	nds/year)	(pounds/year)	5	(pounds/year)					
8.1	Quantity released **		5		5		0	0					
8.2	Quantity used for energy reconsite	overy	0		0			v					
8.3	Quantity used for energy reconffsite	overy	0		0		0	0					
8.4	Quantity recycled onsite		0		0		0	0					
8.5	Quantity recycled offsite		332		500		400	400					
8.6	Quantity treated onsite		0		0		0	0					
8.7	Quantity treated offsite		0		0	0							
8.8	Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year)												
8.9	Production ratio or activity inc	dex				0090.00							
	Did your facility engage in an enter "NA" in Section 8.10.1	y source reductions	ction activities for this	s chemical d	uring the report	ing year? If not,							
8.10	Source Reduction Activiti	ies	. N	lethods to Id	lentify Activity (enter codes)							
8.10.1	W19	a.	T04		b.		c.						
8.10.2	W36	a.	T01		b.		c.						
8.10.3	W21	a.	T03		b.		c.						
8.10.4		a.			b.		C.						
8.11	Is additional information on source reduction, recycling, or pollution control activities included with this report ? (Check one box) YES NO X												

Report releases pursuant to EPCRA Section 329(8) including "any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment." Do not include any quantity treated onsite or offsite.